

SEQUENCE LISTING

<110> Ryan, James W.

<120> Genomic Polynucleotide Fragments From Chromosome 7

<130> JR-14,000-US

<150> US 60/234,422

<151> 2001-09-21

<160> 8

<170> PatentIn version 3.1

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<213> Homo sapiens

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Glu Arg Ser Ser Lys Gly Thr Arg Ala Ser Val Lys Glu Gln Asp Tyr
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Leu Cys His Val Tyr Val Arg Asn Asp Ser Leu Ala Gly Val Val Ile
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Ala Asp Asn Glu Tyr Pro Ser Arg Val Ala Phe Thr Leu Leu Glu Lys
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Val Leu Asp Glu Phe Ser Lys Gln Val Asp Arg Ile Asp Trp Pro Val
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Gly Ser Pro Ala Thr Ile His Tyr Pro Ala Leu Asp Gly His Leu Ser
115 120 125

Arg Tyr Gln Asn Pro Arg Glu Ala Asp Pro Met Thr Lys Val Gln Ala
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Glu Leu Asp Glu Thr Lys Ile Ile Leu His Asn Thr Met Glu Ser Leu
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Leu Glu Arg Gly Glu Lys Leu Asp Asp Leu Val Ser Lys Ser Glu Val
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Ser Cys Cys Ala Ile Met
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Met Arg Arg Met Gln Lys Glu Met Asp Arg Gly Leu Arg Leu Glu Thr
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His Glu Glu Ala Ser Val Lys Met Leu Pro Thr Tyr Val Arg Ser Thr
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Pro Glu Gly Ser Glu Val Gly Asp Phe Leu Ser Leu Asp Leu Gly Gly
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Thr Asn Phe Arg Val Met Leu Val Lys Val Gly Glu Gly Glu Gly
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Gln Trp Ser Val Lys Thr Lys His Gln Thr Tyr Ser Ile Pro Glu Asp
100 105 110

Ala Met Thr Gly Thr Ala Glu Met Leu Phe Asp Tyr Ile Ser Glu Cys
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Ile Ser Asp Phe Leu Asp Lys His Gln Met Lys His Lys Lys Leu Pro
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Leu Gly Phe Thr Phe Ser Phe Pro Val Arg His Glu Asp Ile Asp Lys
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Gly Ile Leu Leu Asn Trp Thr Lys Gly Phe Lys Ala Ser Gly Ala Glu
165 170 175

Gly Asn Asn Val Val Gly Leu Leu Arg Asp Ala Ile Lys Arg Arg Gly
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Asp Phe Glu Met Asp Val Val Ala Met Val Asn Asp Thr Val Ala Thr
195 200 205

Met Ile Ser Cys Tyr Tyr Glu Asp His Gln Cys Glu Val Gly Met Ile
210 215 220

Val Gly Thr Gly Cys Asn Ala Cys Tyr Met Glu Glu Met Gln Asn Val
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Glu Leu Val Glu Gly Asp Glu Gly Arg Met Cys Val Asn Thr Glu Trp
245 250 255

Gly Ala Phe Gly Asp Ser Gly Glu Leu Asp Glu Phe Leu Leu Glu Tyr
260 265 270

Asp Arg Leu Val Asp Glu Ser Ser Ala Asn Pro Gly Gln Gln Leu Tyr
275 280 285

Glu Lys Leu Ile Gly Gly Lys Tyr Met Gly Glu Leu Val Arg Leu Val
290 295 300

Leu Leu Arg Leu Val Asp Glu Asn Leu Leu Phe His Gly Glu Ala Ser
305 310 315 320

Glu Gln Leu Arg Thr Arg Gly Ala Phe Glu Thr Arg Phe Val Ser Gln
325 330 335

Val Glu Ser Asp Thr Gly Asp Arg Lys Gln Ile Tyr Asn Ile Leu Ser
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Thr Leu Gly Leu Arg Pro Ser Thr Thr Asp Cys Asp Ile Val Arg Arg
355 360 365

Ala Cys Glu Ser Val Ser Thr Arg Ala Ala His Met Cys Ser Ala Gly

370

375

380

Leu Ala Gly Val Ile Asn Arg Met Arg Glu Ser Arg Ser Glu Asp Val
 385 390 395 400

Met Arg Ile Thr Val Gly Val Asp Gly Ser Val Tyr Lys Leu His Pro
 405 410 415

Ser Phe Lys Glu Arg Phe His Ala Ser Val Arg Arg Leu Thr Pro Ser
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Pro Arg Glu Asp Asp Val Glu Ala Pro Pro Pro Pro Glu Pro Thr Pro
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Arg Val Arg Lys Ala Gln Ala Gly Gly Lys Pro Gly Lys Arg Pro Gly
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Thr Ala Ala Glu Val Pro Pro Glu Lys Thr Lys Asp Lys Gly Lys Lys
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Gly Lys Lys Asp Lys Gly Pro Lys Val Pro Lys Glu Ser Leu Glu Gly
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Ser Pro Arg Pro Pro Lys Lys Gly Lys Glu Lys Pro Pro Lys Ala Thr
115 120 125

Lys Lys Pro Lys Glu Lys Pro Pro Lys Ala Thr Lys Lys Pro Lys Glu
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Glu Pro Pro Lys Ala Thr Lys Lys Pro Lys Glu Lys Pro Pro Lys Ala
145 150 155 160

Thr Lys Lys Pro Pro Ser Gly Lys Arg Pro Pro Ile Leu Ala Pro Ser
165 170 175

Glu Thr Leu Glu Trp Pro Leu Pro Pro Pro Ser Pro Gly Pro Glu
180 185 190

Glu Leu Pro Gln Glu Gly Gly Ala Pro Leu Ser Asn Asn Trp Gln Asn
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Pro Gly Glu Glu Thr His Val Glu Ala Gln Glu His Gln Pro Glu Pro
210 215 220

Glu Glu Glu Thr Glu Gln Pro Thr Leu Asp Tyr Asn Asp Gln Ile Glu
225 230 235 240

Arg Glu Asp Tyr Glu Asp Phe Glu Tyr Ile Arg Arg Gln Lys Gln Pro
245 250 255

Arg Pro Pro Pro Ser Arg Arg Arg Arg Pro Glu Arg Val Trp Pro Glu
260 265 270

Pro Pro Glu Glu Lys Ala Pro Ala Pro Ala Pro Glu Glu Arg Ile Glu
275 280 285

Pro Pro Val Lys Pro Leu Leu Pro Pro Leu Pro Pro Asp Tyr Gly Asp
290 295 300

Gly Tyr Val Ile Pro Asn Tyr Asp Asp Met Asp Tyr Tyr Phe Gly Pro
305 310 315 320

Pro Pro Pro Gln Lys Pro Asp Ala Glu Arg Gln Thr Asp Glu Glu Lys
325 330 335

Glu Glu Leu Lys Lys Pro Lys Lys Glu Asp Ser Ser Pro Lys Glu Glu
340 345 350

Thr Asp Lys Trp Ala Val Glu Lys Gly Lys Asp His Lys Glu Pro Arg
355 360 365

Lys Gly Glu Glu Leu Glu Glu Trp Thr Pro Thr Glu Lys Val Lys
370 375 380

Cys Pro Pro Ile Gly Met Glu Ser His Arg Ile Glu Asp Asn Gln Ile
385 390 395 400

Arg Ala Ser Ser Met Leu Arg His Gly Leu Gly Ala Gln Arg Gly Arg
405 410 415

Leu Asn Met Gln Thr Gly Ala Thr Glu Asp Asp Tyr Tyr Asp Gly Ala
420 425 430

Trp Cys Ala Glu Asp Asp Ala Arg Thr Gln Trp Ile Glu Val Asp Thr
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Arg Arg Thr Thr Arg Phe Thr Gly Val Ile Thr Gln Gly Arg Asp Ser
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Ser Ile His Asp Asp Phe Val Thr Thr Phe Phe Val Gly Phe Ser Asn
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Asp Ser Gln Thr Trp Val Met Tyr Thr Asn Gly Tyr Glu Glu Met Thr
485 490 495

Phe His Gly Asn Val Asp Lys Asp Thr Pro Val Leu Ser Glu Leu Pro
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Glu Pro Val Val Ala Arg Phe Ile Arg Ile Tyr Pro Leu Thr Trp Asn
515 520 525

Gly Ser Leu Cys Met Arg Leu Glu Val Leu Gly Cys Ser Val Ala Pro
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Val Tyr Ser Tyr Tyr Ala Gln Asn Glu Val Val Ala Thr Asp Asp Leu
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Asp Phe Arg His His Ser Tyr Lys Asp Met Arg Gln Leu Met Lys Val
565 570 575

Val Asn Glu Glu Cys Pro Thr Ile Thr Arg Thr Tyr Ser Leu Gly Lys
580 585 590

Ser Ser Arg Gly Leu Lys Ile Tyr Ala Met Glu Ile Ser Asp Asn Pro
595 600 605

Gly Glu His Glu Leu Gly Glu Pro Glu Phe Arg Tyr Thr Ala Gly Ile
610 615 620

His Gly Asn Glu Val Leu Gly Arg Glu Leu Leu Leu Leu Leu Met Gln
625 630 635 640

Tyr Leu Cys Arg Glu Tyr Arg Asp Gly Asn Pro Arg Val Arg Ser Leu
645 650 655

Val Gln Asp Thr Arg Ile His Leu Val Pro Ser Leu Asn Pro Asp Gly
660 665 670

Tyr Glu Val Ala Ala Gln Met Gly Ser Glu Phe Gly Asn Trp Ala Leu
675 680 685

Gly Leu Trp Thr Glu Glu Gly Phe Asp Ile Phe Glu Asp Phe Pro Asp
690 695 700

Leu Asn Ser Val Leu Trp Gly Ala Glu Glu Arg Lys Trp Val Pro Tyr
705 710 715 720

Arg Val Pro Asn Asn Asn Leu Pro Ile Pro Glu Arg Tyr Leu Ser Pro
725 730 735

Asp Ala Thr Val Ser Thr Glu Val Arg Ala Ile Ile Ala Trp Met Glu
740 745 750

Lys Asn Pro Phe Val Leu Gly Ala Asn Leu Asn Gly Gly Glu Arg Leu
755 760 765

Val Ser Tyr Pro Tyr Asp Met Ala Arg Thr Pro Thr Gln Glu Gln Leu
770 775 780

Leu Ala Ala Ala Met Ala Ala Ala Arg Gly Glu Asp Glu Asp Glu Val
785 790 795 800

Ser Glu Ala Gln Glu Thr Pro Asp His Ala Ile Phe Arg Trp Leu Ala
805 810 815

Ile Ser Phe Ala Ser Ala His Leu Thr Leu Thr Glu Pro Tyr Arg Gly
820 825 830

Gly Cys Gln Ala Gln Asp Tyr Thr Gly Gly Met Gly Ile Val Asn Gly
835 840 845

Ala Lys Trp Asn Pro Arg Thr Gly Thr Ile Asn Asp Phe Ser Tyr Leu
850 855 860

His Thr Asn Cys Leu Glu Leu Ser Phe Tyr Leu Gly Cys Asp Lys Phe
865 870 875 880

Pro His Glu Ser Glu Leu Pro Arg Glu Trp Glu Asn Asn Lys Glu Ala
885 890 895

Leu Leu Thr Phe Met Glu Gln Val His Arg Gly Ile Lys Gly Val Val
900 905 910

Thr Asp Glu Gln Gly Ile Pro Ile Ala Asn Ala Thr Ile Ser Val Ser
915 920 925

Gly Ile Asn His Gly Val Lys Thr Ala Ser Gly Gly Asp Tyr Trp Arg
930 935 940

Ile Leu Asn Pro Gly Glu Tyr Arg Val Thr Ala His Ala Glu Gly Tyr
945 950 955 960

Thr Pro Ser Ala Lys Thr Cys Asn Val Asp Tyr Asp Ile Gly Ala Thr
965 970 975

Gln Cys Asn Phe Ile Leu Ala Arg Ser Asn Trp Lys Arg Ile Arg Glu
980 985 990

Ile Met Ala Met Asn Gly Asn Arg Pro Ile Pro His Ile Asp Pro Ser
995 1000 1005

Arg Pro Met Thr Pro Gln Gln Arg Arg Leu Gln Gln Arg Arg Leu
1010 1015 1020

Gln His Arg Leu Arg Leu Arg Ala Gln Met Arg Leu Arg Arg Leu
1025 1030 1035

Asn Ala Thr Thr Thr Leu Gly Pro His Thr Val Pro Pro Thr Leu
1040 1045 1050

Pro Pro Ala Pro Ala Thr Thr Leu Ser Thr Thr Ile Glu Pro Trp
1055 1060 1065

Gly Leu Ile Pro Pro Thr Thr Ala Gly Trp Glu Glu Ser Glu Thr
1070 1075 1080

Glu Thr Tyr Thr Glu Val Val Thr Glu Phe Gly Thr Glu Val Glu
1085 1090 1095

Pro Glu Phe Gly Thr Lys Val Glu Pro Glu Phe Glu Thr Gln Leu
1100 1105 1110

Glu Pro Glu Phe Glu Thr Gln Leu Glu Pro Glu Phe Glu Glu Glu
1115 1120 1125

Glu Glu Glu Glu Lys Glu Glu Glu Ile Ala Thr Gly Gln Ala Phe
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1145 1150 1155

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Thr Asn Ser Ser Gln Pro Phe Arg Leu Gly Glu Arg Ser Phe Ser Arg
35 40 45

Gln Tyr Ala His Ile Tyr Ala Thr Arg Leu Ile Gln Met Arg Pro Phe
50 55 60

Leu Glu Asn Arg Ala Gln Gln His Trp Gly Ser Gly Val Gly Val Lys
65 70 75 80

Lys Leu Cys Glu Leu Gln Pro Glu Glu Lys Cys Cys Val Val Gly Thr
85 90 95

Leu Phe Lys Ala Met Pro Leu Gln Pro Ser Ile Leu Arg Glu Val Ser
100 105 110

Glu Glu His Asn Leu Leu Pro Gln Pro Pro Arg Ser Lys Tyr Ile His
115 120 125

Pro Asp Asp Glu Leu Val Leu Glu Asp Glu Leu Gln Arg Ile Lys Leu
130 135 140

Lys Gly Thr Ile Asp Val Ser Lys Leu Val Thr Gly Thr Val Leu Ala
145 150 155 160

Val Phe Gly Ser Val Arg Asp Asp Gly Lys Phe Leu Val Glu Asp Tyr
165 170 175

Cys Phe Ala Asp Leu Ala Pro Gln Lys Pro Ala Pro Pro Leu Asp Thr
180 185 190

Asp Arg Phe Val Leu Leu Val Ser Gly Leu Gly Leu Gly Gly Gly Gly
195 200 205

Gly Glu Ser Leu Leu Gly Thr Gln Leu Leu Val Asp Val Val Thr Gly
210 215 220

Gln Leu Gly Asp Glu Gly Glu Gln Cys Ser Ala Ala His Val Ser Arg
225 230 235 240

Val Ile Leu Ala Gly Asn Leu Leu Ser His Ser Thr Gln Ser Arg Asp
245 250 255

Ser Ile Asn Lys Ala Lys Tyr Leu Thr Lys Lys Thr Gln Ala Ala Ser
260 265 270

Val Glu Ala Val Lys Met Leu Asp Glu Ile Leu Leu Gln Leu Ser Ala
275 280 285

Ser Val Pro Val Asp Val Met Pro Gly Glu Phe Asp Pro Thr Asn Tyr
290 295 300

Thr Leu Pro Gln Gln Pro Leu His Pro Cys Met Phe Pro Leu Ala Thr

305 310 315 320
 Ala Tyr Ser Thr Leu Gln Leu Val Thr Asn Pro Tyr Gln Ala Thr Ile
 325 330 335
 Asp Gly Val Arg Phe Leu Gly Thr Ser Gly Gln Asn Val Ser Asp Ile
 340 345 350
 Phe Arg Tyr Ser Ser Met Glu Asp His Leu Glu Ile Leu Glu Trp Thr
 355 360 365
 Leu Arg Val Arg His Ile Ser Pro Thr Ala Pro Asp Thr Leu Gly Cys
 370 375 380
 Tyr Pro Phe Tyr Lys Thr Asp Pro Phe Ile Phe Pro Glu Cys Pro His
 385 390 395 400
 Val Tyr Phe Cys Gly Asn Thr Pro Ser Phe Gly Ser Lys Ile Ile Arg
 405 410 415
 Gly Pro Glu Asp Gln Thr Val Leu Leu Val Thr Val Pro Asp Phe Ser
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 Ala Thr Gln Thr Ala Cys Leu Val Asn Leu Arg Ser Leu Ala Cys Gln
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